

CAS/STN

FILE 'LREGISTRY' ENTERED AT 12:20:06 ON 20 APR 2009

L162 129 SEA ABB=ON PLU=ON PET OR PEN OR PES OR (ETHYLEN#### OR POLYETHYLENE) (2A) (TEREP##### OR NAPHTHAL? OR SULF##### OR SULPH#####)

FILE 'LCA' ENTERED AT 12:21:35 ON 20 APR 2009

L163 11 SEA ABB=ON PLU=ON TFT##### OR TRANSISTORS(L) (THIN FILM OR THINFILM) OR (THINFILM OR THIN FILM) (2A) TRANSISTOR####

L164 13 SEA ABB=ON PLU=ON (FLEX##### OR BENDAB? OR SHAPE MEMOR#### OR DEFORMAB? OR RESULIEN? OR ELASTIC##### OR ELASTOMER? OR RUBBER#) (2A) (CARD OR BOARD OR PCB OR SUBSTRATE)

L165 236 SEA ABB=ON PLU=ON PET OR PEN OR PES OR (ETHYLEN#### OR POLYETHYLENE) (2A) (TEREP##### OR NAPHTHAL? OR SULF##### OR SULPH#####)

L166 767 SEA ABB=ON PLU=ON POLYESTER

L167 20 SEA ABB=ON PLU=ON (INSULA##### OR NONCONDUCT##### OR NON CONDUCT##### OR UNCONDUCT?) (2A) (CARD OR BOARD OR PCB OR SUBSTRATE)

FILE 'HCAPLUS' ENTERED AT 12:25:29 ON 20 APR 2009

L168 35914 SEA ABB=ON PLU=ON (INSULA##### OR NONCONDUCT##### OR NON CONDUCT##### OR UNCONDUCT?) (2A) (CARD OR BOARD OR PCB OR SUBSTRATE)

L169 20328 SEA ABB=ON PLU=ON (FLEX##### OR BENDAB? OR SHAPE MEMOR#### OR DEFORMAB? OR RESULIEN? OR ELASTIC##### OR ELASTOMER? OR RUBBER#) (2A) (CARD OR BOARD OR PCB OR SUBSTRATE)

L170 40888 SEA ABB=ON PLU=ON TFT##### OR TRANSISTORS(L) (THIN FILM OR THINFILM) OR (THINFILM OR THIN FILM) (2A) TRANSISTOR####

L171 4179 SEA ABB=ON PLU=ON (L168 OR L169) AND L170

L172 122 SEA ABB=ON PLU=ON L171 AND (L165 OR L166)

FILE 'REGISTRY' ENTERED AT 12:26:17 ON 20 APR 2009

L173 9291 SEA ABB=ON PLU=ON PET OR PEN OR PES OR (ETHYLEN#### OR POLYETHYLENE) (2A) (TEREP##### OR NAPHTHAL? OR SULF##### OR SULPH#####)

FILE 'STNGUIDE' ENTERED AT 12:26:38 ON 20 APR 2009

FILE 'HCAPLUS' ENTERED AT 12:26:54 ON 20 APR 2009

L174 113 SEA ABB=ON PLU=ON L171 AND L173

L175 82 SEA ABB=ON PLU=ON L174 AND L173 (L) (PCB OR SUBSTRATE OR BOARD)

L176 129 SEA ABB=ON PLU=ON L172 OR L175

L177 51 SEA ABB=ON PLU=ON L176 AND 1990-2005/PY

L178 39 SEA ABB=ON PLU=ON L177 AND FLEX#####

L179 24 SEA ABB=ON PLU=ON L177 AND INSULA#####

L180 12 SEA ABB=ON PLU=ON L178 AND L179

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FILE 'STNGUIDE' ENTERED AT 12:28:40 ON 20 APR 2009

FILE 'HCAPLUS' ENTERED AT 12:31:14 ON 20 APR 2009

L181 50 SEA ABB=ON PLU=ON (L178 OR L179) AND (FLEX##### OR INSULA##### OR PET OR PES OR PEN OR POLYESTER OR POLYETHYLEN? OR POLY ETHYLEN#####) (2A) (SUBSTRATE OR BOARD OR VARD)

FILE 'HCAPLUS' ENTERED AT 12:31:33 ON 20 APR 2009

L182 20 SEA ABB=ON PLU=ON (L178 OR L179) AND (FLEX##### OR INSULA##### OR PET OR PES OR PEN OR POLYESTER OR POLYETHYLEN? OR POLY ETHYLEN#####) (2A) (TFT##### OR LCDTFT OR TRANSISTOR)

L183 50 SEA ABB=ON PLU=ON (L181 OR L182)

Sheet  
1 of 2

L184	38 SEA ABB=ON	PLU=ON	L183 NOT L180
L185	21 SEA ABB=ON	PLU=ON	L184 AND SUBSTRATE/TI
L186	19 SEA ABB=ON	PLU=ON	L184 AND FLEX#####/TI
L187	2 SEA ABB=ON	PLU=ON	L184 AND INSULA#####/TI
L188	14 SEA ABB=ON	PLU=ON	L185 AND L186
L189	6 SEA ABB=ON	PLU=ON	(L185 OR L186 OR L187) AND TFT#####/TI
L190	11 SEA ABB=ON	PLU=ON	(L185 OR L186 OR L187) AND TRANSISTOR/TI
L191	17 SEA ABB=ON	PLU=ON	(L189 OR L190) OR L187
	D ALL TOT		

Sheet  
2 of 2

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	3849	(nonconduct\$6 or (non adj conduct\$5) or unconduct\$6 or insula\$7) near6 (flex\$9 or resilien\$7 or deform\$7 or (shap\$5 near2 memor\$4)) near6 (substrate or board or pcb or card)	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/20 11:47
L2	3261	(resin\$6) near6 (flex\$9 or resilien\$7 or deform\$7 or (shap\$5 near2 memor\$4)) near6 (substrate or board or pcb or card)	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/20 11:48
L3	1664	(plastic) near6 (flex\$9 or resilien\$7 or deform\$7 or (shap\$5 near2 memor\$4)) near6 (substrate or board or pcb or card)	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/20 11:48
L4	593	(rubber) near6 (flex\$9 or resilien\$7 or deform\$7 or (shap\$5 near2 memor\$4)) near6 (substrate or board or pcb or card)	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/20 11:48
L5	272	(elastomer\$5) near6 (flex\$9 or resilien\$7 or deform\$7 or (shap\$5 near2 memor\$4)) near6 (substrate or board or pcb or card)	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/20 11:48
L6	3741	(metal\$5 or steel) near6 (flex\$9 or resilien\$7 or deform\$7 or (shap\$5 near2 memor\$4)) near6 (substrate or board or pcb or card)	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/20 11:48
L7	4083	(nonconduct\$6 or (non adj conduct\$5) or unconduct\$6 or insula\$7) near6 (flex\$9 or resilien\$7 or deform\$7 or (shap\$5 near2 memor\$4)) near6 (substrate or board or pcb or card)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 11:49
L8	3448	(resin\$6) near6 (flex\$9 or resilien\$7 or deform\$7 or (shap\$5 near2 memor\$4)) near6 (substrate or board or pcb or card)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 11:49
L9	2232	(plastic) near6 (flex\$9 or resilien\$7 or deform\$7 or (shap\$5 near2 memor\$4)) near6 (substrate or board or pcb or card)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 11:49
L10	666	(rubber) near6 (flex\$9 or resilien\$7 or deform\$7 or (shap\$5 near2 memor\$4)) near6 (substrate or board or pcb or card)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 11:49

## EAST Search History

L11	307	(elastomer\$5) near6 (flex\$9 or resilien\$7 or deform\$7 or (shap\$5 near2 memor\$4)) near6 (substrate or board or pcb or card)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 11:49
L12	4052	(metal\$5 or steel) near6 (flex\$9 or resilien\$7 or deform\$7 or (shap\$5 near2 memor\$4)) near6 (substrate or board or pcb or card)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 11:49
L13	10124	L7 L8 L9 L10 L11	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 11:49
L14	797	L12 and L13	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 11:50
L15	6	L14 and tft	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 11:50
L16	17	L14 and thin adj film near4 transistor	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 11:50
L17	6	L14 and tft\$5	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 11:50
L18	0	L14 and lcdtft\$5	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 11:50
L19	18	L15 l16 L17	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 11:50
L22	0	L19 and @py<="1995"	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/20 11:52
L23	18	L19 and @py>"1995"	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/20 11:52
L24	18	L15 L16 L17	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 11:55
L25	1	"20040183077"	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 11:56
L26	1	1996-381534.NRAN.	DERWENT	OR	OFF	2009/04/20 11:56
L27	23712	(pet or polyester or terep\$9 or naphthal\$9 or pen or polyethylen\$5 or pes or polyimid\$6 or polyamid\$6 or amid\$6 or lmid\$6) near4 (substrate or board or pcb or card)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 12:00

## EAST Search History

L28	105	L27 and tft	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 12:00
L29	191	L27 and thin adj film near4 transistor	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 12:00
L30	106	L27 and tft\$5	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 12:00
L31	0	L27 and lcdtft\$5	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 12:01
L32	23712	L27 L28 L29 L30	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 12:01
L33	676	L13 and L32	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 12:02
L34	253	L33 and @py<="1995"	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/20 12:02
L35	15	L12 and L34	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/20 12:03
L36	229	L28 L29 L30	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 12:04
L37	31	L36 and @py<="1995"	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/20 12:04
L38	323760	(double or pair\$5 or bond\$6 or 2 or two or second or 2nd or stack\$5 or lamina\$7 or ply or plies or multiple or sandwich\$6) near3 (substrate or board or pcb or card)	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 12:06
L39	7	L37 and L38	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 12:06
L40	0	(L37 not L39) and flex\$7 near4 substrate	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 12:09
L41	1470	(L27 not L39) and flex\$7 near4 substrate	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 12:09
L42	4472	(resin\$6 not L39) and flex\$7 near4 substrate	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 12:10

## EAST Search History

L43	835	resin\$7 near4 flex\$7 near4 substrate	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 12:10
L44	787	plastic near4 flex\$7 near4 substrate	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 12:10
L45	741	polymer\$2 near4 flex\$7 near4 substrate	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 12:10
L46	176	polyester near4 flex\$7 near4 substrate	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 12:11
L47	193	bendab\$8 near4 substrate	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 12:11
L48	706	deformab\$7 near4 substrate	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 12:11
L49	4451	L41 L43 L44 L45 L46 L47 L48	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 12:12
L50	1047	(pet or polyester or pen or pes) adj substrate	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 12:12
L51	5439	L49 L50	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 12:13
L52	62	L51 and tft\$5	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 12:13
L53	0	L51 and lcdtft\$5	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 12:13
L54	147	L51 and thin adj film near4 transistor	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 12:13
L55	62	L51 and tft	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 12:13
L56	158	L52 L54 L55	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/04/20 12:14
L57	5	L56 and @py<="1995"	EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2009/04/20 12:14

4-20-2009 10/815,654

CAS/STN

FILE 'HCAPLUS' ENTERED AT 14:38:08 ON 20 APR 2009  
E JP 60066863/PN

FILE 'LCA' ENTERED AT 14:38:15 ON 20 APR 2009

L1 0 SEA ABB=ON PLU=ON (BEND##### OR FLEX##### OR DEFORM#####  
# OR RESILIEN#####) (5A) (TFT OR THIN FILM TRANSISTOR) (5A) SUBST  
RATE

FILE 'HCAPLUS, INSPEC, COMPENDEX, NTIS' ENTERED AT 14:39:13 ON 20 APR 2009

L2 618 SEA ABB=ON PLU=ON L1  
L3 35 SEA ABB=ON PLU=ON (BEND##### OR FLEX##### OR DEFORM#####  
# OR RESILIEN#####) (7A) (TFT OR THIN FILM TRANSISTOR) (7A)  
SUBSTRATE (7A) (INSULAT##### OR NON CONDUCT##### OR NONCONDUCT?)

L4 2 SEA ABB=ON PLU=ON L3 AND 1980-1995/PY

D ALL TOT

L5 0 SEA ABB=ON PLU=ON L3 AND 1970-1979/PY

FILE 'STNGUIDE' ENTERED AT 14:41:04 ON 20 APR 2009

FILE 'PCI' ENTERED AT 14:46:08 ON 20 APR 2009

E JP 60066863/PN

L6 1 SEA ABB=ON PLU=ON JP60066863/PN  
D ALL

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